CHELLACHEV, V. H. PROF			TA 65776	• 1
USSR/Petro Bibli	leum Industry .ography	Apr 1948		
"Review of Prof V. N.	N. V. Tikhonravov's Bo Shchelkachev, 21 pp	ook, 'Petroleum',"		
. "Neft Khoz	2" No 4			
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SHCHELKACHYEV, V. N.

FA 65T52

USSR/Geology Tectonics May 1948

"The Propagation of Disturbances in a Stratum," V. M. Shchelkachyev, 2 pp

"Neft Khoz" Vol XXVI, No 5

Author refers to article by E. B. Chekalyuk. Disagrees on several points made by Chekalyuk and presents entirely different method to study the distribution of stratal pressure that allows tracing beyond the effective radius of an interstice.

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SHCHELKACHEV, V.N. (Prof.)

"Generalization of Ideas in the Radii of Influence of Wells," Dokl. AN SSSR.

54, No.2, 1948

SHCHELKACHEV, V.N. (Prof.)

"The Propogation of "isturbances in a Stratum," Dokl. AN SSSR, 54, No.6, 1948

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Skvazhin Trudy Mosk. Neft. In-ta Im. Akad Guckina, Nyp. 9, 1949, S. 3-36.

S0: Letopis' No. 30, 1949

SHCHELKACHEV, V.N., doktor tekhnicheskikh nauk, professor.

Calculating formation pressures and well yields in connection with edge-water drive. Trudy MNI no.11:40-56 '51.

(0il field flooding)

MICHALINACIEV, J. N.	211796 hydrodynamically ideal wells sunk in s. homogeneous hydrodynamically ideal wells sunk in s. homogeneous elastic stratum of infinitely large extension. Submitted by Acad S. A. Khristianovich 9 Jun 51.	USSR/Physics - Filtration Flow, Nonstationary Investigating the Monstationary Filtration Flow of "Investigating the Monstationary Filtration Flow of an Elastic Fluid Toward a Circular Battery of Sinks," an Elastic Fluid Toward a Circular Battery of Sinks," The Month of Sinks Sinks Sinks Sinks Investigates nonsteady plano-radial motion of Investigates nonsteady plano-radial motion of homogeneous elastic fluid according to the linear homogeneous elastic fluid according to the linear law of filtration toward a circular battery of n law of filtration toward a circular battery of n	
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SHCHELKAGHEV, V. N.

USSR/Physics - Elastic Fluid

11 Aug 51

"Application of Operational Methods to the Solution of the Problem Concerning the Motion of an Elastic Fluid in an Elastic Stratum," V.N. Shchelkachev

"Dok Ak Nauk SSSR" Vol LXXIX, No 5, pp 751-754

Investigates nonstationary plano-radial motion of a homogeneous elastic fluid according to the linear law of filtration to a hydrodynamically ideal well in an elastic stratum of infinitely large extension the regime of the stratum being elastic-"water forced." Assumes that the well is being exploited with const discharge. Submitted by Acad S. A. Khristianovich 9 Jun 51. 210T84

CIA-RDP86-00513R001548810016-7" APPROVED FOR RELEASE: 03/14/2001

SERDIY, A.G., redaktor; STEPANYANTS, A.K., professor, redaktor; TIKHO"IROV, A.A., kandidat ekonomicheskikh nauk, redaktor; VINOGRADOV,
V.N., redaktor; CHERNOZHUKOV, N.I., professor, redaktor; SHCHEL KACHEV, V.N., professor, redaktor; CHARYGIN, M.M., professor,
redaktor; DUNATEV, F.F., professor, redaktor; KUZMAK, Ye.M.,
professor, redaktor; MURAV'YEV, I.M. professor, redaktor;
GUREVICH, V.M., redaktor; MURATOVA, V.M., redaktor, POLOSINA,
A.S., tekhnicheskiy redaktor.

[Sixth scientific and technical conference, 1951] Shestaia nauchno-tekhnicheskaia konferentsiia, 1951. Moskva, Gos.nauchno tekhn.izd-vo neftianoi i gorno-toplivnoi lit-ry, 1952, 214 p. (MLRA 8:10)

1. Moscow. Moskovskiy neftiancy institut. Nauchnoye studencheskoye obshchestvo.

(Petroleum geology)

Spenich en array datas

SERDIY, A.G., redaktor; TIKHOMIROV, A.A., kandidat ekonomicheskikh nauk, redaktor; STEPANYANTS, A.K., professor, redaktor; VIHOGRADOV, V.N. redaktor; CHERNOZHUKOV, N.I., professor, redaktor; SHCHELKACHEV V.N., professor, redaktor; CHARYGIN, M.M. professor, redaktor; KUZYAK, Ye.M., professor, redaktor; MURAVYEV, I.M. professor, redaktor; GUREVICH, V.M., redaktor; MURATOVA, V.M., redaktor; TROFIMOV, A.V., tekhnicheskiy redaktor.

[Seventh scientific and technical conference, 1952] Sed'meia nauchno-tekhnicheskaia konferentsiia, 1952. Moskva, Gos.nauchno tekhn.izd-vo neftianoi i gorno-toplivnoi lit-ry, 1953. 171 p. (MLRA 8:10)

1. Moscow. Moskovskiy neftianoy institut. Nauchnoye studencheskoye obshchestvo.

(Petroleum Geology)

SHCHELKACHEV, V.N., professor, doktor tekhnicheskikh nauk.

Natural characteristics of the movement of liquid particles from injection wells to producing wells. Trudy MBI no.12:117-126 '53.

(MLRA 9:8)

(Petroleum engineering) (Fluid dynamics) (Oilfield flooding)

ZOLOYEV, M.T.; MIKHAYLOVSKIY, N.K.; SHCHELKACHEV, V.N., professor, doktor tekhnicheskikh nauk.

Some characteristics of the oil-water boundary shift in the case of peripheral flooding in sloping sands. Trudy MNI no.12:126-138 (MLRA 9:8)

1. Glavnyy geolog tresta Tuymazaneft' (for Zoloyev); 2. Nachal'nik geologicheskogo otdela tresta Tuymazaneft' (for Mikhaylovskiy).

(Oilfield flooding)

SHCHELKACHEV, V.N., professor, doktor tekhnicheskikh nauk

Calculating the sums of even powers of intervals to vertices of a rectilinear polygon. Trudy MNI no.13:130-132 '53.

(Polygons)

(MIRA 3:6)

Subject : USSR/Mining

AID P = 334

Card

1/1

Authors

Shchelkachev, V. N. and Nazarov, S. N.

Title

: Consideration of influence of hydrodynamic non-perfection

of holes under flexible conditions

Periodical

: Neft. Khoz., v. 32, #5, 35-41, My 1954

Abstract

The authors present a review of work of different investigators, given in 10 references. The review concerns the computation of variation in pressure drop in wells under different hydrodynamic conditions during the first month of exploitation. The authors present nine formulae, two tables and ten Russian references (1948-53).

Institution :

None

Submitted : No date

ZHIGACH, K.F., professor, redaktor; STEPANYANTS, A.K., professor, redaktor; TIKHOMIROV, A.A., kandidat ekonomicheskikh nauk, redaktor; KARAPETYAN, R.O, kandidat filosoficheskikh nauk, redaktor; CHERNOZHUKOV, N.I., professor; YERSHOV, P.R., redaktor; GUREVICH, V.M., redaktor; MURAV'YEV, I.M., professor, redaktor; SHCHELKACHEV, V.N., professor, redaktor; CHARYGIN, M.M., professor, redaktor; DUNAYEV, F.F., professor, redaktor; KUZMAK, Ye.M., professor, redaktor; POLOSINA, A.S., tekhnicheskiy redaktor.

[Ninth scientific and technological conference of 1954]Deviataia nauchno-tekhnicheskaia konferentsiia 1954. g. Moskva, Gos. nauchno-tekhn.izd-vo neftianoi i gorno-toplivnoi lit-ry. 1955. 205 p. [Microfilm] (MLRA 8:9)

1. Moscow. Moskevskiy neftiancy institut. Nauchnoye studencheskeye obshchestva.

(Geology) (Petroleum)

AND THE RESIDENCE OF THE PROPERTY OF THE PROPE

LEY TONZON, Leonid Samuilovich, 1879-1951 (deceased); NEKRASOV, A.I., akadenik; TIKHONOV, A.N.; IL YUSHIN, A.A.; SOKOLOVSKIY, V.V.; GALIN, L.A.; SHCHELKACHEV, V.N., doktor tekhnicheskikh nauk; TREBIH, F.A., doktor tekhnicheskikh nauk; GRIGOR YEV, A.S., kandidat tekhnicheskikh nauk; SEDOV, L.I., akademik, redaktor; ZVOLINSKIY, N.V., professor, redaktor; ALESKEYEVA, T.V., tekhnicheskiy redaktor.

[Collected works] Sobranie trudov. Moskva, Izd-vo Akademii nauk SSSR. Vol.4[Hydroaerodynamics. Geophysics] Gidroaerodinamika, Geofizika, 1955. 398 p. (MLRA 8:11)

1. Chlen-korrespondent AN SSSR (for Tikhonov, Il yushin, Sokolovskiy, Galin)

(Geophysics) (Fluid dynamics)

LEYBENZON, Leonid Samuilovich, akademik; NEKRASOV, A.I., akademik;
TIKHONOV, A.N.; IL'YUSHIN, A.A.; SOKOLOVSKIY, V.V.; SHCHKLKACHEV,
V.N., doktor tekhnicheskikh nauk; TREBIN, F.A., doktor tekhnicheskikh nauk, redaktor; GALIN, L.A.; GRIGOR'YEV, A.S., doktor tekhnicheskikh nauk; CHARNYY, I.A., doktor tekhnicheskikh nauk, redaktor; ALEKSEYEVA, T.V., tekhnicheskiy redaktor.

A PRINCE RESIDENCE DESCRIPTION DE LA PRESENTACION DE LA PRINCE DEL PRINCE DE LA PRINCE DEL PRINCE DE LA PRINCE DEL PRINCE DE LA PRINCE DE LA PRINCE DE LA PRINCE DEL PRINCE DEL

[Collected works] Sobranie trudov. Moskva, Izd-vo Akademii nauk SSSR. Vol.3.[Petroleum engineering] Neftepromyslovaia mekhanika 1955. 678 p. (MLRA 8:10)

1. Chlen-korrespondent AN SSSR (for Tikhonov, Il'yushin, Sckolovskiy and Galin)
(Petroleum engineering)

CONTRACTOR OF THE PROPERTY OF

15-57-7-10346

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 7,

p 250 (USSR)

AUTHORS: Snarskiy, A. N., Loginov, E. G., Yeronin, V. A.,

Shchelkachev, V. W.

TITLE: Results of Heat Application (Vystupleniya v preniyakh)

PERIODICAL: V sb: Metody uvelicheniya nefteotdachi plastov.

Moscow, Gostoptekhizdat, 1955, pp 107-113

ABSTRACT:

Bibliographic entry

Card 1/1

124-57-1-764

Translation from. Referativnyy zhurnal, Mekhanika, 1957, Nr l, p 100 (USSR)

AUTHOR: Shchelkachev, V.N.

TITLE: Formulation of the Problem and Investigation of Some Laws

Governing the Flooding of a Well in the Simplest Conditions (Postanovka zadachi i issledovaniye nekotorykh zakonomernostiy

obvodneniya skvazhiny v prosteyshikh usloviyakh)

PERIODICAL: Tr. Mosk. neft. in-ta, 1955, Nr 14, pp 184-196

ABSTRACT: A substantiation of the possibility that the flow in a petroliferous layer which is subdivided by a number of nearly impervious inter-

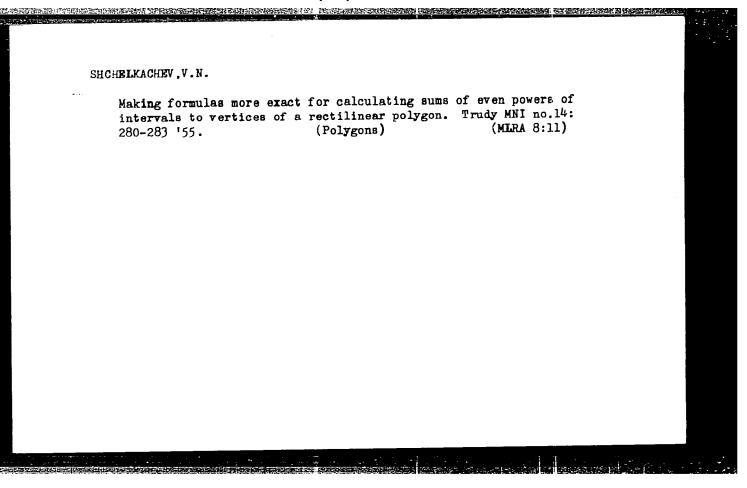
layers may be examined as a two-dimensional flow. In such a layer the problem is formulated relative to the determination of the flooding of a well as a function of time and of the initial petroliferous contour. A specific problem is examined for a hydrodynamically perfect well in which the initial petroliferous contour is starshaped with respect to the well. The difference of viscosity of the oil and the water is disregarded, and the liquids and reservoir

rocks are assumed to be incompressible and uniform. The reverse problem is also formulated, namely, the determination of the initial petroliferous contour that corresponds to a given law governing the

Card 1/1 flooding. Computational examples are adduced. V.L. Danilov

1. Petroleum--Recovery--Mathematical analysis 2. Oil wells--Flooding

--Theory



SHCHELKACHEN V. N

USSR/ Mathematics - Hydromechanics

Card 1/1

Pub. 22 - 8/51

Authors

\$ Shchelkachev, V. N.

Title

Simplification of solutions of a Fourier differential equation for problems connected with the inclusion of round sets of sources and flows

Periodical

Dok. AN SSSR 101/2, 225-228, Mar 11, 1955

Abstract

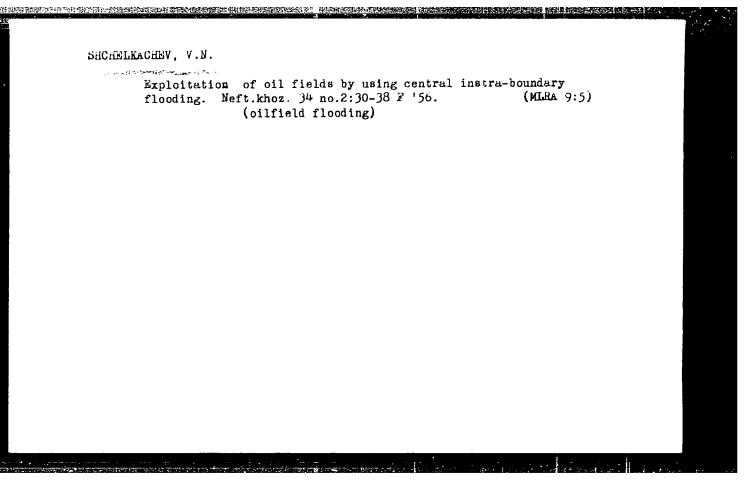
A simplified and reliable solution was found for a Fourier differential equation involving the inclusion of round sets of sources and flows. The solution is also recommendable for problems concerning the theory of heat conductivity, theory of diffusion and other similar problems. Four USSR references (1951-1953), Diagram.

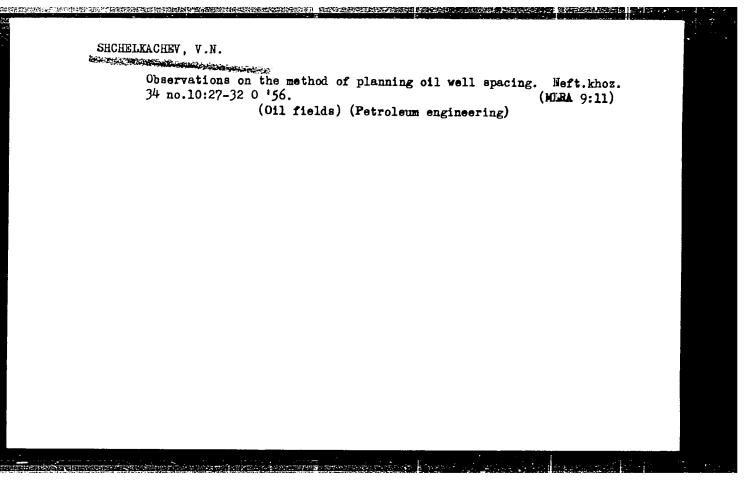
Institution:

The I. M. Gubkin Petroleum Institute, Moscow

Presented by:

Academician L. I. Sedov, November 13, 1954





AND THE PROPERTY OF THE PROPER

11(4) PHASE I BOOK EXPLOITATION SOV/1443

Moscow. Neftyanoy institut.

Voprosy dobychi nefti i mashinostroyeniya (Problems of Petroleum Production and Petroleum Engineering) Moscow, Gostoptekhizdat, 1957. 393 p. (Its: Trudy, vyp. 20) 1,000 copies printed.

Executive Eds.: Martynova, M.P., and K.P. Svyatitskaya;
Tech. Ed.: Polosina, A.S.; Editorial Board: Zhigach, K.F.
(Resp. Ed.) Professor, I.M. Murav'yev, Professor, A.A. Tikhomirov,
Candidate of Economic Sciences, Yegorov, Candidate of Economic
Sciences, M.M. Charygin, Professor, F.F. Dunayev, Professor,
I.A. Charnyy, Professor N.I. Chernozhukov, Professor, Ye. M.
Kuzmak, Professor, V.N. Dakhnov, Professor, G.M. Panchenkov,
Professor, N.S. Nametkin, Doctor of Chemical Sciences, N.A. Almazov,
Docent, V.I. Biryukov, Docent, V.N. Vinogradov, Docent,
E.I. Tagiyev, V.M. Gurevich.

PURPOSE: This book is intended for specialists working in the petroleum and gas industry and for advanced students at petroleum vuzes.

Card 1/6

Problems of Petroleum Production (Cont.) SOV/1443

COVERAGE: The book is a collection of articles written by professors and faculty members of the Petroleum Institute im.
Academician I.M. Gubkin. It deals with problems connected with the development of oil-bearing mother rocks, radiometry as applied to oil wells, production of carboxymethyl ethers of cellulose and their use in drilling to open productive formations. Methods for softening the sea water used in preparing drilling mud, the selection of the type of steel for rock bit cutters, the theory of circular milling with plain milling cutters, and the flow of viscous liquids in rotating pipes and open channels are also discussed in individual articles. There are 50 references, of which 24 are Soviet.

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SOV/124-58-11-12904

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 11, p 149 (USSR)

AUTHOR: Shchelkachev, V. N.

TITLE: Peculiarities of the Progressive Water Flooding of a Well in

Uniformly and Nonuniformly Stratified Sloping Reservoirs (Osobennosti progressiruyushchego obvodneniya skvazhiny v odnorodno- i neodnorodnosloistom naklonnykh plastakh)

PERIODICAL: Tr. Mosk. neft. in-ta, 1957, Nr 20, pp 13-22

ABSTRACT: The author examines a sloping stratified reservoir stratum of

constant thickness, in which oil drains into a hydrodynamically perfect well under the pressure exerted by the edge waters. It is assumed that the liquid moves toward the well solely in the direction of the stratification surfaces, that the motion obeys the linear seepage law, and that the differences between the viscosities and densities of the oil and water may be disregarded. Having made these assumptions the author investigates the process of the water

flooding of the well first for the uniformly stratified reservoir and then for the nonuniformly stratified one. The formulas and graphs

Card 1/2 obtained characterize the process of water flooding in either case;

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CONSTRUCTION OF STREET STREET, STREET,

Peculiarities of the Progressive Water Flooding of a Well

numerical examples are adduced. Bibliography: 5 references.

V. A. Karpychev

Card 2/2

SHCHELKACHEV, Vladimir Nikolayevich,; SAVINA, Z.A., ved. red.; MUKHINA, E.A., tekhn. red.

。 《大學》[7] 本。 《大學》(大學》(大學》)

[Exploitation of oil fields in the United States; status and trends] Rezrabotka neftianykh mestorozhdenii v SShA; analiz sostoianiia i tendentsii razvitiia. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1958. 37 p.

(MIRA 11:11)

(United States--Oil fields)

SHCHELKACHEV, V.N.

Analysis of average indicators of United States oil field exploitation and trends revealed by changes in them. Geol. nefti 2 no.5: 64-71 My 158. (MIRA 11:5)

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1. Moskovskiy ordena Trudovogo Krasnogo Znameni neftyanoy institut im. akademika I.M. Gubkina. (United States--Petroleum engineering)

AUTHOR: Shehelkachav, V.N. 20V-5-58-3-26/39

TITLY: The Present State of the Theory of Floxibility of water and

Oil Bearing Strata (Sovremennoye sostoyaniye teorii upru-

gogo rezhima vodonosnykh i neftenosnykh plastov)

FARIODICAL: Byulleten' Moskovskogo obshchestva ispytateley prirody,

Otdel geologicheskiy, 1958, Nr 3, pp 153 - 154 (USOR)

ABSTRACT: This is a resume of a lecture given on Mar 20, 1958. The

basic features of a flexible condition are: continuity at a redistribution of pressure, extraction of the flexible reserve liquids of the strata at lowered pressure. The author distinguishes two types of flexible conditions: flexible water pressure and locked flexible conditions. During the past 10 years, extensive research on the flexibility of

blanket deposits of water and oil has been conducted in the

USSR. Soviet scientists arrived at an empiric formula, which

Card 1/2

The Present State of the Theory of Floxibility of Water and Gil Bearing Strata

enables one to calculate the coefficient of volumetric flexibility of the water, when the gravimetric concentration of solt in the water and its relative specific weight under blanket deposit conditions is known.

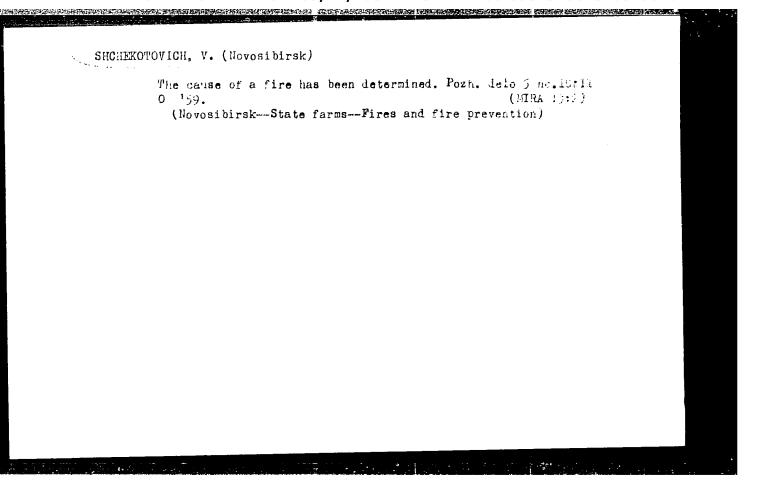
1. Geology--USSR 2. Water--Pressure--Analysis 3. Water--Gravi---metric analysis 4 Petroleum--USSR

Card 2/2

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SHCHELKACHEV, Vladimir Nikolayevich; GUBANOV, A.I., kand.tekhn.nauk.retsenzent; PETROVA, Ye.A., vedushchiy red.; MUKHINA, E.A., tekhn.red.

[Production of oil and water layers operating under elastic compression] Razrabotka neftevodonosnykh plastov pri uprugom rezhime. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1959. 467 p. (MIRA 12:10) (Oil reservoir engineering)



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Denisov, Yu. N., Troshin, Ya. K., and Shchelkin, K.I. AUTHORS

(Moscow, Novosibirsk)

The Analogy Between Combustion with Explosive Waves and (Combustion) in a Rocket Engine 23 TITLE:

Izvestiya Akademii nauk SSSR. Otdeleniye tekhnicheskikh nauk Energetika i avtomatika, 1959, PERIODICAL: Nr 6, pp 79-89 (USSR)

The paper is a continuation of previous work (Refs 1, 2, 6, 7, 12, 13, 14, 17). The combustion chamber of a ABSTRACT: rocket engine is regarded as a cylindrical tube (Fig la). The fuel and oxidant is fed through the head 2 and forms the mixture in zone 1. After chemical conversion of the initial fuel in the combustion zone 2, gaseous products are formed in zone 3. [Fig 1. - a; scheme of combustion chamber: b: pressure diagram in schematic plane of explosive waves; ca schematic representation of a disturbance in the ignition zone] The original state of the material is characterised by the initial parameters: pressure p₁, density p₁, temperature T₁, and flow velocity u₁, and by final parameters: pressure p3. density P3, temperature T3 and flow Card 1/5

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The Analogy Between Combustion with Explosive Waves and Combustion in a Rocket Engine

velocity \mathbf{u}_3 . Q is the energy evolved in passing from the initial to the final state. These quantities are connected by the Hugoniot equation (top of p 80), in which $\kappa = (\gamma + 1/\gamma - 1)$ where γ is the ratio of specific heats $c_{\rm D}/c_{\rm V}$. The Hugoniot is shown in Fig 2. [Hugoniot adiabatics. For descriptiveness both branches of the adiabatics EM and KM are represented by the same energy evolution Q which is independent of the initial pressure of the reacting mixture] in coordinates p, V, where $V = 1/\rho = \text{specific volume}$. Analysis of the physical significance of the branches of the Hugoniot curve shows that the deflagrational portion KA (Fig 2) can be regarded as the geometrical locus of points each of which corresponds to a given amount of boost of the combustion process in a rocket engine. It is shown that this process may be unstable, the instability being determined by Eq (5) in which AT is the temperature change of the gas in the disturbed region and τ is the induction period of ignition. The variation of r with temperature is given by Eq (6), where E is the

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The Analogy Between Combustion with Explosive Waves and Combustion in a Rocket Engine

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activation energy and R is the gas constant. If the constant k is independent of temperature and pressure, the criterion for instability of the plane ignition zone in explosive waves in E_q (7) or in terms of pressure, Eq (8), Calculation shows that instability exists for many gaseous explosive mixtures, and leads to high frequency vibrations (Fig 3 - spin explosion). Figs 4 and 5 show the so-called normal explosion (Fig 4 taken with a low resolving power equipment; Fig 5 taken with higher resolving power equipment; mixture $2H_2 + O_2$, $P_0 = 760$ mm Hg, magnification along the z axis: G = 3, time axis 1 mm = 1 µsec; in Figs 3, 4, and 5 the z axis is horizontal and the time axis vertical). Fig 5 shows periodic inhomogeneities in the explosive wave front. These were further investigated by means of a deposit of soot on the inside of a glass tube in which the explosion took place and left the traces shown in Fig 6 (Step trace of a pulsating explosion. Mixture $2H_2 + O_2$, $p_0 = 300$ mm Hg. d = 16 mm, G = 5; propagation direction of explosive waves from bottom to

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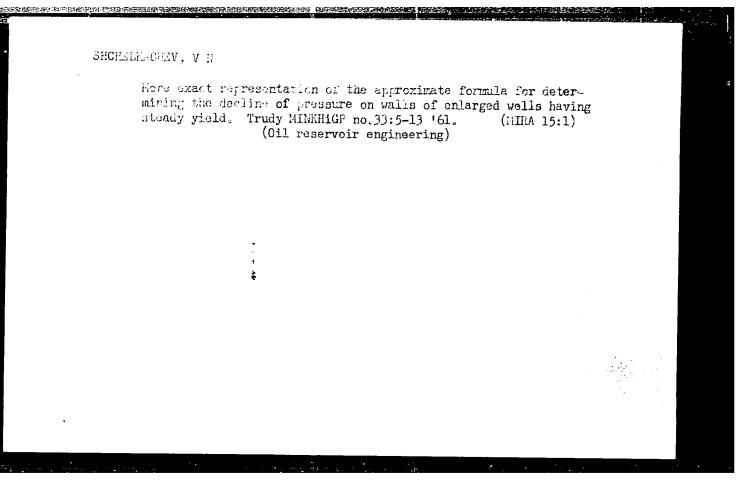
The Analogy Between Combustion with Explosive Waves and Combustion in a Rocket Engine

top; the arrows show the tracks of periodic explosions; d is the diameter of the tube.) Analysis of experimental results shows that there are two types of explosive wave, spin (Fig 3. 7a, 6) and pulsating (Fig 78, 6) (Fig 7; step traces in explosive mixtures 2H₂ + O₂, a,6; Spin $P_0 = 50 \text{ mm Hg}$ d = 16 mm, G for a = 1.3, for $\delta = 2.25$; g pulsating with $n \approx 2$, $p_0 = 130$ mm Hg, d = 11 mm, G = 2.5.) These two types of wave are illustrated in Fig 8, together with graphs showing numerical results. (Fig 8. Dependence of the explosive wave parameters on initial pressure in the reacting mixture (mixture $2H_2 + O_2$; d = 16 mm). a - explosive velocity D the mean temperature in the wave T_A ; 5 - form of the leading front of the explosive waves at times t_1 and I - spin; II - pulsating with the number n of pulsations round the contour of the tube = 1; III pulsating with n = 2, R =frequency and number of pulsations n. Experimental points obtained by the photographic method plotted as squares; remaining points/ obtained by the trace method.) The criterion for

Card 4/5

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(Hydrodynamics)

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(Petroleum production—Periodicals)
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SHCHELKACHEV, V.N.; VLYUSHIN, V.Ye.

Simplifying calculations of reservoir pressure in the operation of a circular line in an elastic drive. Izv.vys.ucheb.zav.; neft' i gaz 6 no. 12:81-85 163. (MIRA 17:5)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im.akademika I.M.Gubkina.

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(MIRA 18:3)

Vaderground hydrodynemics and the theory of the dof only finias. Meft. Knoz. 42 no.9, 10:128-132 S	evelopment =0	
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report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics. Moscow, 29 January - 5 February 1964.

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"The solution of special boudary value problems of the unsteady motion of an elastic fluid in a elastic layer with the aid of electronic computers"

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January - 5 February 1964

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 (United States--0il reservoir engineering)

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SHCHELKAHOV, A.F., Inzh.

Effect of the hardness and microstructure on the resistance of steel to abrasive wear and cavitation. Energomashinostroenie II no.1:32-36 Ja 165. (MIRA 18:4)

86247/VOS	/ 1n-	Exploita- s: Its:	sal saj A. A. tshing	echn1cal	EMAGE: This is a collecti, nof 22 articles by different authors on problems of underground exploitation of large massive ore deposits in the Urals. The articles are based on studies carried out in the Laboratory for the Exploitation of Ore Deposits of the Gorno-geologichesky institut UPAN SSSR (Institute of Mining Geology, Ural Branch AS USSR), between 1958-1959. No personalities are mentioned, Most of the articles are accembated by references.	28 In 53		65				-			6	å	131	=		7. 16.	} .	3// dvm/ec 8-1-61
	Garno-geologicheakiy	ground Ex (Scries:	torial Board: K. V. Kochnev, Professor, Doctor of Technical Sciences; L. Ye. Zubrilov, Candidate of Technical Sciences; A. Illivitskiy, Candidate of Technical Sciences. Ed. of Publishing House: M. S. Ebergardt; Tech. Ed.; N. F. Scredkina.	POSE: This publication is intended for engineering and technical personnel in the mining industry.	Ifferent entrate entrate entrate en pende en contra en c	On Reducing the Volume of Drainage Sumps in	Shaft Drainage Sump With Vertical Well-Type	Poretgn	11-in, A. M., and B. A. Pygznk, Comparison of the System of Forced Lovel Caving Mith the Combined System Under the Conditions of the Vysokogorskiy Mine	Zabrilov, L. Ye., and A. I. Shuryzin. Selective and Total Extraction of Copper and Sulphur Ores of the Degiverskoye Deposits	Zabrilov, L. Ye., and B. M. Shullain, Analysis of Labor Input Porced Level Caving at the Vysokogorskiy Mine	<u>Ονολητοπκο, V. N., and Y. A. Shahelkangy.</u> Improvement of In- clined Dike-Exploitation at the Berecoekly Mine	Shurygin, A. I. Fractice in Exploiting Thin Ore Sections of the Degtyarakoye Deposit	ing to Pi	Danchey, P. S. On the Influence of the Coefficient of Loading the Effect of Explosion in Stope Cutting	a Study of the Selamic Effect of Strong	Porming	Moranov, P. V., A. N. Ekonnikov, V. P. Kompanoveta, Yu. A. Kobakov, and P. M. Chepchugov. Use of Underground Excavators Stoeply Dipping Ore Deposite	and the loiting	Shchelkanov, V. A. Evaluating Methods of Delivering Grushed Oru In Exploiting Inclined Deposits	•	5 65
NOI	orno-geol	Podzemnaya razrabotka rudnykh mestorozhdenjy (Underground E. tion of Ore Deposita) Sverdlovsk [1950] 165 p. (Series: Trudy, vyp. 54) 1,000 copies printed.	f Technica nees. Ed	engineer	derground exploitations by different derground exploitation of large massive. The articles are based on studies tory for the Exploitation of Oppositivity uPAN SSSN (Institute of Minch AS USSN), between 1958-1959. No phost of the articles are accompanied by TECHNOLOGY OF UNDERGROUND EXPLOITATION	ne of Dra	With Vert	New Methods of Overhand Stoping (Poreign	n of the	ective and ne Degtyen	lysis of I	Improvement Mine	In Ore Sec	Shul'min, B. M. On the Transition Boundary From Mining to Extraction in Exploiting Deposits of Massive Ores	ıfficient	o Effect	Nikolin, V. I. Evaluating the Different Methoda of Porming Punnels in the Ploors of (Chamber) Blocks	aneyets, rground E	yShchulkanov, V. A. Utilizing the Force of Explosion and the Ore's Omn Wolght for Transporting Grushed Ore in Exploiting Inclined Deposits	_ elivering		
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SHCHELKANOV, V.A., inzh.

Experimental determination of the resistance factor in the movement of certain rocks and ores. Izv.vys.ucheb.zav.; gor.zhur. no.4:31-41 °60. (MIRA 14:4)

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MOSHINSKIY, Lazar' Grigor'yevich; SHCHELKANOV, Vladlen Aleksandrovich; SIPYAGINA, Z.A., red. izd-va; IL'INSKAYA, G.M., tekhn. red.

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SHCHELKAHOV, V.A.; MOZZHEGOROV, A.S.

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SURIN, V.V., girnyy in.h.; OkloV, V.S., gornyy inzhe; SHCHSLKANOV, V.A., kard. tekh. nauk
Increasing the exphanic efficiency of underground mining at the
"Huzhnaia" Mine. Cor. zhur. no.6:22-23 Je '64. (MIRA 17:11)

1. Gordbia; odatakeye rudoupravieniye (for Surin, Orlov). 2. Institut
garong: dela Uraliskogo illiala AM SSSk (for Shchelkanov).

VERNIKOVSKIY, K.B.; LUBENETS, I.P.; ORLOW, V.S.; SHCHELKANOV, V.A.;

DENISOW, Ye.M.

Induced block caving at the Gora Blagodat' mine. Gor. zhur.

(MIRA 18:12)

1. Goroblagodatskoy zhelezorudnoye mestorozhdeniye (for
Vernikovskty, Endenets, Orlow). 2. Institut gornogo dela,
Sverdlovsk (for Shchelkanov, Denisov).

ACC NR. AP6032423

SOURCE CODE: UR/0103/66/000/009/0019/0026

AUTHOR: Shchelkanovtsev, N. M. (Moscow)

ORG: none

TITLE: One problem of optimal control of a linear plant by constrained controlling

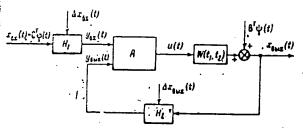
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SOURCE: Avtomatika i telemekhanika, no. 9, 1966, 19-26

TOPIC TAGS: optimal automatic control, automatic control design, automatic

control R and D

ABSTRACT: An automatic control system is considered which consists (see figure)



of a linear plant having a known weight function $W(t_1, t_2)$ and a corrector A that shapes controlling signals u(t). The corrector receives information about the input variable and the plant position via channels H_1 and H_2 . In these channels, the useful signals are mixed with an

Cord 1/2

UDC: 62 - 505.5/.7

SHCHELGACHEV, R.V.

Structural characteristics of a reverse starting system on Sulzer RD-type diesel engines. Inform. sbor. TSNIIMF no.101;
Tekh. ekspl. mor. flota no.25:51-74 '63. (MIRA 17:9)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001548810016-7"

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the rights of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

Name

Thurin, V.D. I hishkin, Shehalkanov, V.I. Haparozhniv, P.S. Lavnego, Yu.B. Ivranskiv, J.S. Cyuntsov, A.I. Niho ov, ..?

Title of Work

Popular Scientific and Technical Series for Engineering and Technical Forkers, and Forkers on Large Hydraulic Engineering Fonstructions"

Nominated by

All-Union Scientific Engineering and Technical Society of Constructors

so: N-30604, 7 July 1954

SHERRER STATE OF ST.

AID P - 356

Subject : USSR/Engineering

Card : 1/1

Author : Shchelkanovtsev, M. S., Engineer

Title : Trestle for assembly of sectional reinforced concrete

girders

Periodical: Sbor. mat. o nov. tekh. stroi., #4, 17, 1954

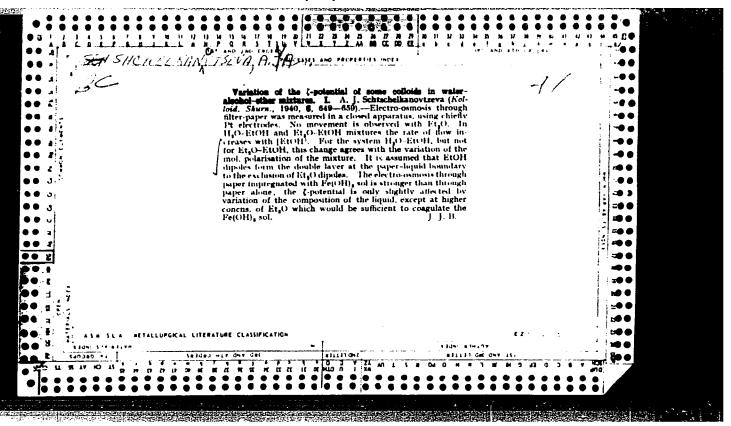
Abstract : A trestle made of gas pipes to which a hoist is attached

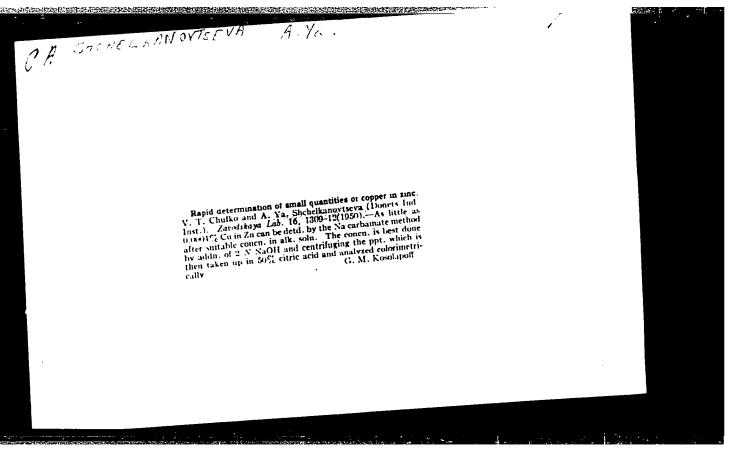
for lifting and depositing in proper place of construction prefabricated heavy reinforced concrete girders (up to 1.5 tons of weight) is presented. The details are

shown on a graph.

Institution: None

Presented : No date





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Translation from: Referativnyy zhurnal, Metallurgiva, 1958, Nr 6, p 384 (USSR)

AUTHORS: Babenyshev, V.M., Shchelkanovtseva, A.Ya., Kuznetsova, O.M.

TITLE: Amperometric Titration of Bismuth with Potassium Ferri-

cyanide (Amperometricheskoye titrovaniye vismuta ferritsiani-

dom kaliya)

PERIODICAL: Sb. nauchn. tr. Kuybyshevsk. industr. in-ta, 1957, Nr 7,

pp 37-43

ABSTRACT: Amperometric titration of bismuth by means of its precipi-

tation as Bi $[Fe(CN)_6]$ with a solution of K_3 $[Fe(CN)_6]$ in a weakly nitric-acid medium has been studied. Near the point of equivalence a rounding off of the titration curve is noticed, which indicates a certain solubility of the precipitate. The titration is carried out at 0.9 v wherein diffusion current is produced by Bi³⁺ ions as well as $[Fe(Cn)_6]^{3-}$ ions. To obtain more precise results, the current intensity (i) is calculated according to the formula $i = i_{observed}(v + v_1)/v$, where v is the volume of the solution being titrated and v_1 is the amount of the

Card 1/2 solution of K_3 [Fe(Cn)₆] added. The Bi precipitate is easily

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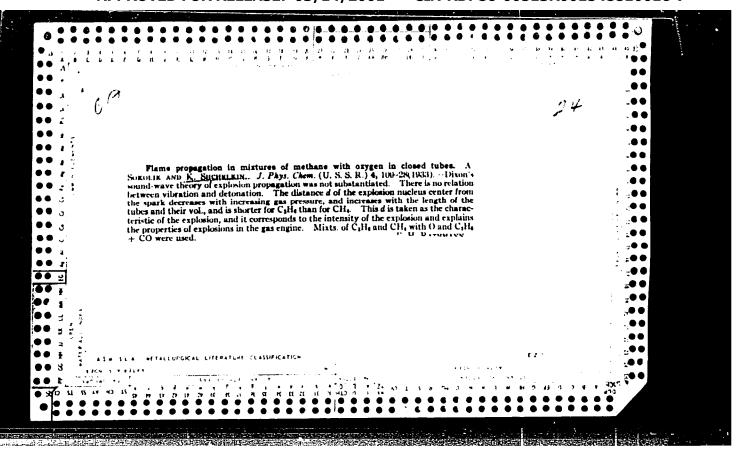
Amperometric Titration of Bismuth with Potassium Ferricyanide

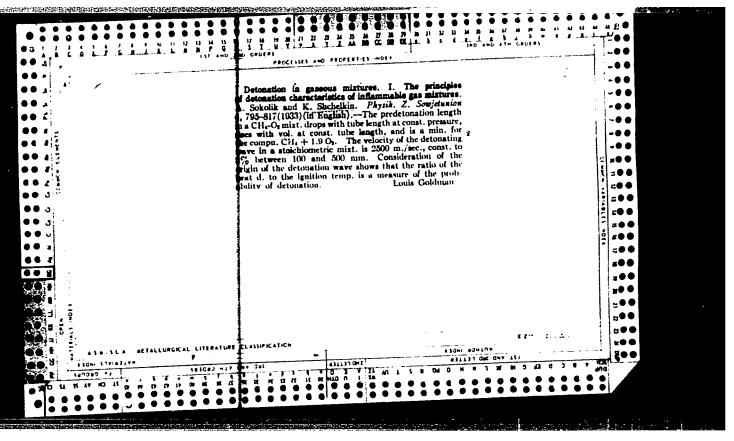
soluble in the presence of Cl $^-$ ions and tartrates which should be absent during titration. The precision of the titration of 0.01-0.003 M of Bi solution is $\pm 1\%$.

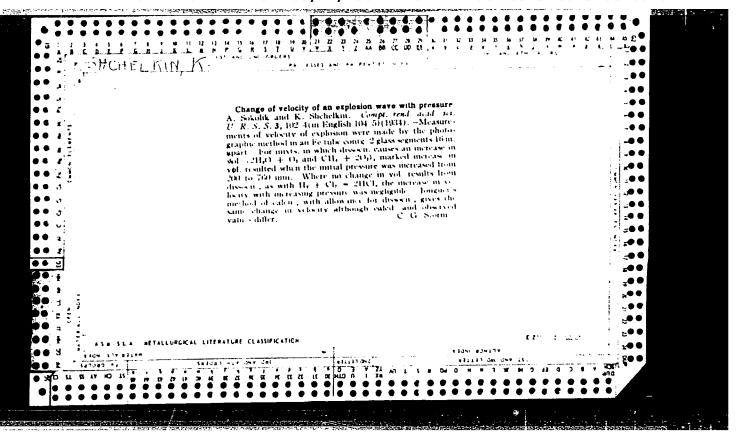
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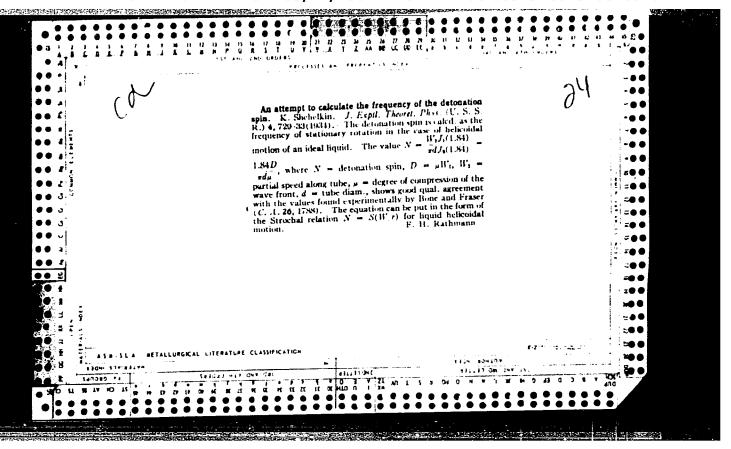
1. Bismuth—Precipatation 2. Titration--Applications 3. Bismuth--Solubility

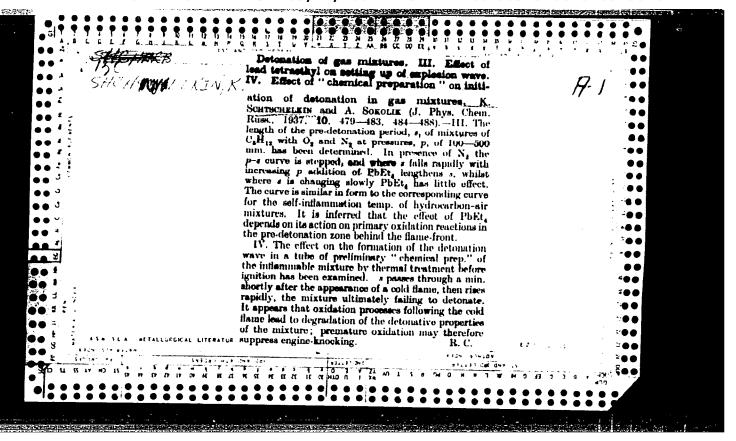
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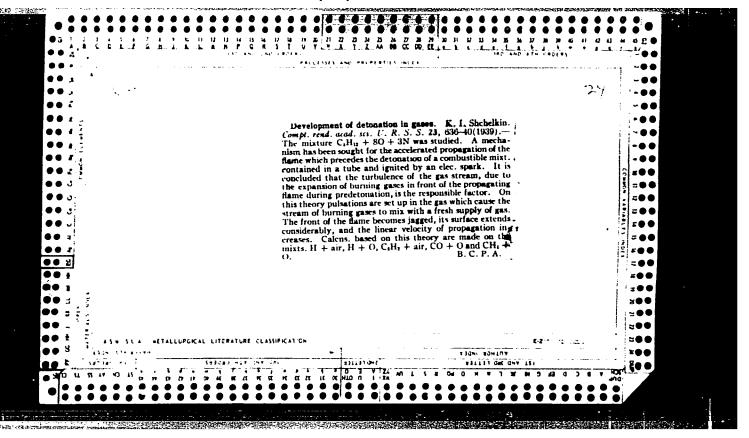


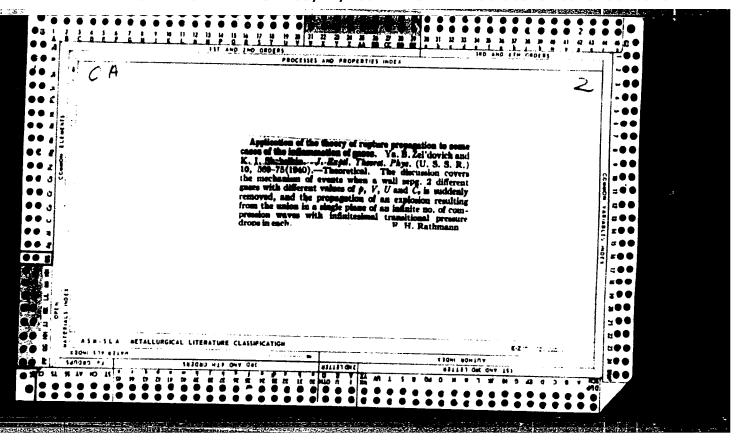


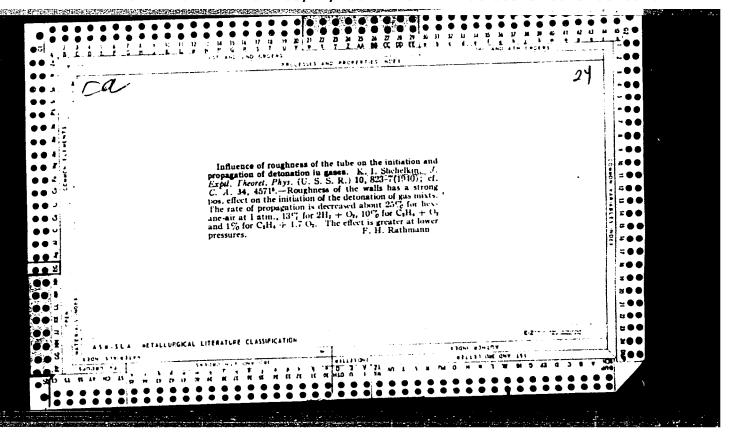


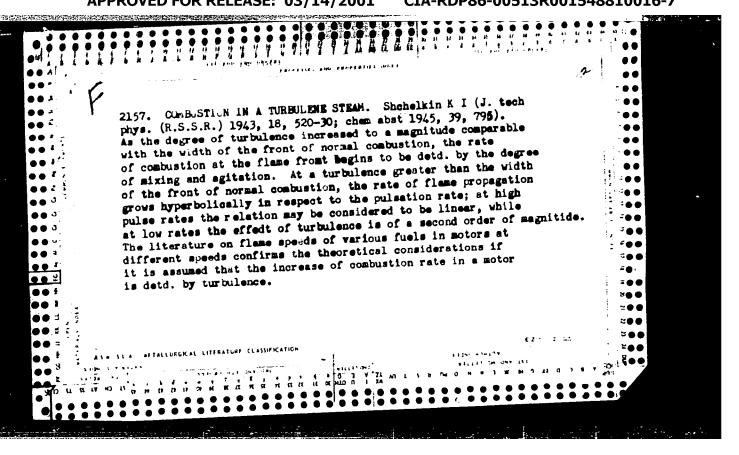


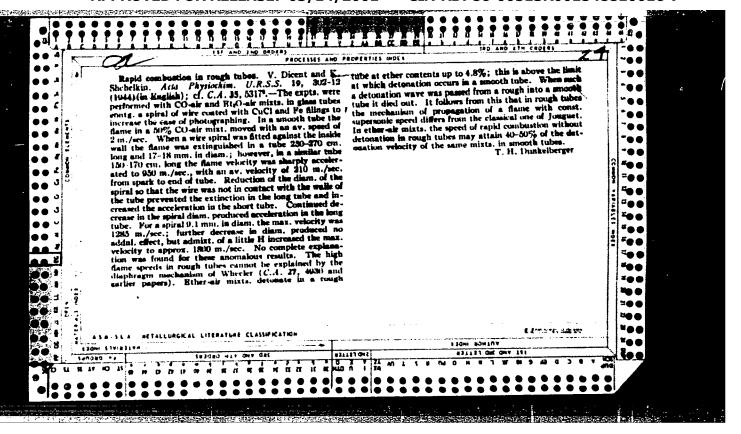


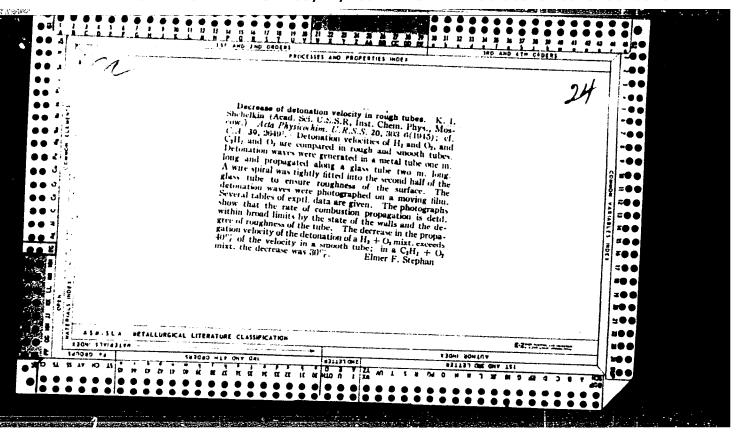


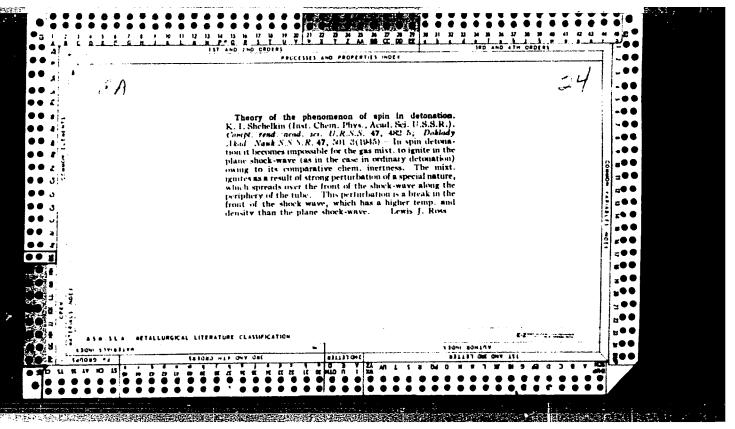


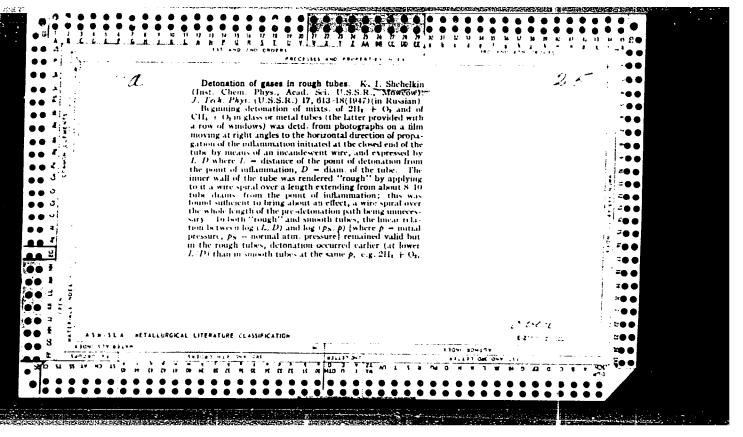


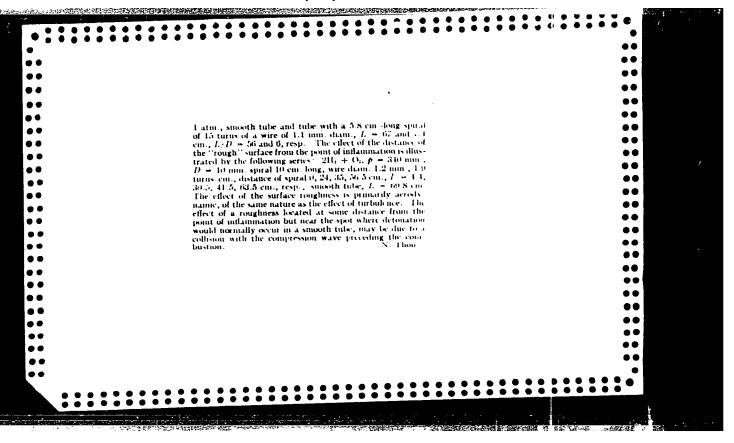




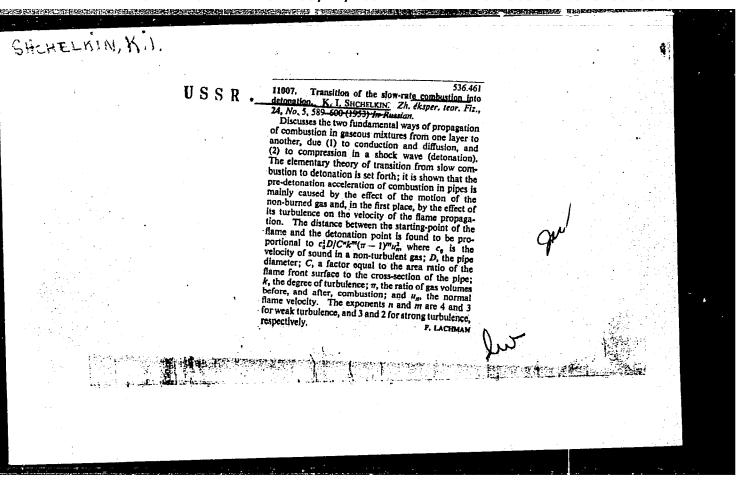








80/910 556.46 Izv. Akad. Nauk, Otd. Tekn. On the Question of Turbulent Combustion and Combustion Phases Nauk (3),463-4711953 U.S.S.R. K.I. Shchelkin This represents a contribution to the discussion of an article b Sokolik, Voinov, Svirldov entitled "Influence of Chemical and Turbulence factors in the process of combustion" (ibid.(12)1949). By analyzing the theory of the combustion of gases the author advances certain conditions under which the results for the apparent velocity of combustion propagation as obtained by Sckolik etc. could be compared with theoretical regularities in the turbulent velocity of the flame. He further supported the view of the above authors that the process of combustion should be divided into certain phases, and that the turbulence factor plays a dominating role in the combustion process in its main phase (Bibl.3)



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Pub. 01 - 12/15

Author

: Troshin, Ya. K. and Shchelkin, K. I., Moscow

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Title

: Structure of the front of a spherical flame and the instability of

normal combustion

Periodical: Izv. AN SSSR, Otd. Tekh. Nauk 9, 160-166, Sep 55

Abstract

: Pescribes structure of the frontal area of a spherical flame and lists conditions under which instability in the flat front of a normal flame occurs. Reviews previous work in this field. Presents experimental methodology. Extensive use made of cameras in the study of flame structure. Photographs, graphs. Four references,

all USSR.

Institution:

Submitted: May 21, 1955

CIA-RDP86-00513R001548810016-7 "APPROVED FOR RELEASE: 03/14/2001

SHICHELKIN, KIL USSR/Physics - Detonation FI)-2875

card 1/1

Pub. 146 - 12/26

Author

: Shchelkin, K. I.

Title

: Phenomena close to the place of occurrence of detonation in a gas

Periodical

2 (3) : Zhur. eksp. i teor. fiz., 29, August 1955, 221-226

Abstract

; The author considers the phenomena that take place close to where detonation occurs. In particular he shows that detonation in a gas, in agreement with his earlier developed theory (16id., 24, 589, 1953; DAN SSSR, 34, 747, 1949), can occur not only at a certain distance ahead of the front of slow burning but also immediately next to it. Four references: e.g. Ya. B. Zel'dovich and K. I. Shehelkin, ZhETF, 10, 569, 1940; Kh. A. Rakipova, Ya. K. Troshin, and K. I.

Shcheklin, Zhur. tekhn. fiz., 17, 1397, 1947.

Institution

: Institute of Chemical Physics, Academy of Sciences USSR

Submitted

: May 10, 1954

301/24-59-2-22/30

AUTHOR: Shchelkin, K. I. (Moscow)

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TITLE: Remarks on the Measurement of Propagation Velocity in Turbulent Combustion (Zamechaniya ob izmerenii skorosti rasprostraneniya turbulentnogo goreniya)

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Energetika i avtomatika, 1959, Nr 2, pp 137-138 (USSR)

ABSTRACT: In the investigation of Bolz and Burlage (Ref 1), unexpectedly low values were obtained for the propagation
velocity of turbulent combustion. It is suggested that in
working out their results, Bolz and Burlage introduced a
systematic error by neglecting the width of the combustion
zone. A semi-empirical correction is derived to allow for
this width, and the resulting corrected values are larger
and more reasonable in magnitude. There are 2 English references.

SUBMITTED: January 14, 1959.

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